MR Form 3 (Revised 1982) Page 1 of 2

OPERATOR:



MINE NAME: Experimental Site #1

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES AND ENERGY OF DIVISION OF OIL, GAS AND MINING

4241 State Office Building

Salt Lake City, Utah 84114

ANNUAL OPERATIONS AND PROGRESS REPORT

1984

(To be filed for each mining operation at the end of each calendar year.)

Geokinetics Inc.

ADDRESS:	P.O. Box 1168	PERMIT #:	Act/047/002		
	Vernal, UT 84078	Sec. 2	T. 14S	R. 22E SLBM	
REPRESENTAT	TIVE: William L. Sharrer	DATE OF AP	PROVAL:	March 23, 1979	
(1) Section	n 40-8-15 and Rule M-8 of the U	tah Mined Lan	d Reclama	tion Act,	
require	e each operator to include with	this report	an up-date	ed map and plan	
prepare	ed in accordance with Rule M-3,	providing a	detailed	status of all	
mining	and reclamation activities whi	ch have occur	red durin	g the past year.	
(2) The gro	oss amount of materials moved d	uring the year	r for thi	s mining	
operati	ion was: Approximately 4.5	ac-ft. of	topsoil	was moved	
The dis	sposition of each type of mater	ial was: _T	hree (3)	ac-ft. of topso	il
was	s stockpiled with the addit	ional 1.5 a	c-ft. di	stributed over	
dis	sturbed sites prior to reve	getation (A	ppendix	A).	

(3) Status of reclamation work.*

Month	Number of acres	Type of Results Work Performed (Revegetation Success)		
January				
February				
March				
April				
May	0.5	Rt #24 test plot (See Appendix B)		
June	1.5	clean-up, regrading, recontouring and soil		
July		stabilization - Rt. #26.		
August				
September	4.0	Topsoil removal/placement		
October	0.5	Rt. #24 test plot (See Appendix B)		
November	10.0	Soil preparation, fertilizing and seeding		
December				

*The monthly status of reclamation work should include such items as clean-up, regrading, recontouring, soil preparation, seeding, etc., and may be outlined on a separate sheet if necessary.

A summary of reclamation work performed during 1983 has been attached.

SUMMARY OF MINING AND RECLAMATION ACTIVITIES FOR 1983

Research and development activity to complete the test program continued during 1983 under Geokinetics' cooperative agreement with the Department of Energy.

Mining activities at the site consisted primarily of constructing surface and underground facilities to operate Retorts #27 and #28 and the completion of the burn on Retort #26 (Appendix D). Approximately 13 acres of land was disturbed during this activity.

Retort #26, a 1-acre retort was ignited on July 9, 1982, operated for eight months, and shut down on February 22, 1983. Retorts #27 and #28 (each 2-acres in size) were blasted during 1982 and were ignited on August 11, 1983 and October 11, 1983, respectively. Each retort will burn for approximately 11 months.

Major improvements were made at the site facility to handle the 1983-84 program. A complete off gas cleanup plant was constructed to remove sulfur and ammonia from the off gases. A new evaporation pond was constructed, the power generating plant capacity was increased to a miximum of three megawatts, and the oil storage facilities were increased to a total of 27,000 barrels. A steam heated pipeline system was installed, eliminating use of trucks for on-site oil transport (Appendix D).

Reclamation activities during 1983 consisted of revegetating approximately 11 acres of disturbed land, including a 1-acre test plot (Retort #24) in cooperation with the U.S. Forest Service.

The U.S. Forest Service test plot is designed to yield information on alternative cultural methods and suitable herbaceous and shrub species for establishing a level of vegetative cover adequate to meet government reclamation requirements. This effort is an expansion of Geokinetics on-going revegetation cooperative program with the USFS. A copy of the study plan and both the spring and autumn study establishment reports are provided in Appendix B.

In addition, 10 acres of primarily retorted distrubed land was revegetated during October and November, 1983. A description of the methods utilized are given in Appendix C.